

CLAIMS

1. A process for treating tomato concentrates obtainable by concentration by evaporation, having a dry residue in percentage by weight higher than 15%, preferably higher of 18%, comprising the following steps:
 - I) mixing of the tomato concentrate (component a)) with water (component b));
 - II) liquid separation by a separation solid-liquid apparatus, wherein the mass to be filtered is maintained under a slow stirring; optionally
 - III) addition of water and/or serum and/or tomato juice and/or passata to the solid mass obtained in II).
2. A process according to claim 1, wherein in step II) an apparatus equipped with a mechanical stirrer preferably centrally placed, is used, having angular speed from 1 rpm to 20 rpm, preferably from 2 rpm to 10 rpm, the stirrer blades being of a shape such that the suspension is conveyed to the central axis of the device.
3. A process according to claim 1, wherein the separation solid-liquid apparatus rotates around the longitudinal axis with the rotation speed from 1 rpm to 20 rpm, preferably from 2 rpm to 10 rpm.
4. A process according to claim 1, wherein an apparatus is used constituted by a sieve maintained under an oscillatory motion, preferably a nutational motion, the oscillations-/minute generally being from 1 to 20 oscillations/minute, preferably from 2 to 10 oscillations/minute.
5. A process according to claims 1-4, wherein in step I) as component b) in alternative and/or in association with water a tomato juice or a passata can be used.
6. A process according to claims 1-5, wherein, when in step I) concentrates having a dry content from 15% to 20% by weight are used, the weight amount of component b) is from about 1/6 to 4 times, preferably from 1/4 to 2 time,

- still more preferably from 1/4 to 1 time with respect to the weight of component a).
7. A process according to claims 1-5, wherein when in step I) concentrates having a dry content from 20% to 40% by weight are used, the weight amount of component b) ranges from 1/2 to 4 times, preferably from 1/2 to 2 times, more preferably from 1/2 to 1 time with respect to the weight of component a).
 8. A process according to claims 1-7, wherein one preferably operates under sterile conditions, or alternatively the product recovered at the end of step III) is sterilized.
 9. A process according to claims 1-8, wherein the solid-liquid separation of step II) is carried out at temperatures generally lower than 40°C, preferably lower than 20°C, by operating under atmospheric pressure or under slightly higher pressures, from 760 mm Hg (0.101 MPa) up to 900 mm Hg (0.12 MPa), or by applying pressures slightly lower than the atmospheric pressure, down to 450 mm Hg (0.06 MPa).
 10. A process according to claims 1-9 wherein steps I) and II) are repeated several times using every time a fresh aliquot of component b).
 11. A process according to claims 1-10, wherein in step II) a solid liquid separator is used having walls with openings or holes formed for instance with woven wire cloth or with wire screens or welding screens; alternatively the walls have holes such as punched holes or drilled holes or slot milled holes or beam perforated holes.
 12. A process according to claim 11, wherein the width of the openings or slots, or the diameter in the case of holes, is not greater than 0.1 mm and preferably is not lower than 0.02 mm and the slots length ranges from 30 cm to 2 meters.
 13. A process according to claims 1-3, 5-12, wherein the apparatus used in step II) is a cylinder, preferably in an horizontal position, which has inside a stirrer in the

form of an Archimedean screw, or the apparatus is rotating around the longitudinal axis and has the shape of an helix wound about its own axis, the angular speed being from 2 to 10 rpm.

14. A process according to claim 13, wherein the cylinder has a diameter ranging from 30 cm to 1 meter and length from 2 meters to 20 meters.
15. A process according to claims 1-14, wherein the separator is of metal or of plastic material.
16. Tomato products obtainable according to claims 1-15.
17. Tomato products according to claim 16, wherein the obtainable tomato products are the following (% by weight):
 - dry residue 5.5 - 20%,
 - water 94.5 - 80%;100% being the sum of the two components, wherein the amount of water insoluble solids and water soluble solids in the dry residue ranges in percentage by weight as it follows:
 - water insoluble solids ≥15%, pref. from 18% to 70%,
 - water soluble solids ≤ 85%, pref. from 82% to 30%.
18. Tomato products according to claims 16-17, wherein the amount of water insoluble and soluble solids in the dry residue ranges in percentage by weight as follows:
 - water insoluble solids: from 18% to 25%, preferably 18%-20%
 - water soluble solids: from 82% to 75%, preferably 82%-80%.
19. Tomato products according to claims 16-18, wherein the dry residue ranges from >12% by weight up to 70% by weight, preferably from about 18% to about 60% by weight, more preferably from 18% to 36% by weight.
20. Tomato products according to claim 19, wherein the concentrated products are mixed with fresh tomato juice obtaining passatas and semiconcentrates, the dry residue being (% by weight): in passatas lower than or equal to about 10% by weight, preferably 5%-7% by weight; in

- semiconcentrates about 12%.
21. Tomato compositions wherein the tomato products according to claims 16-20 are mixed with fat containing foodstuffs.
 22. Tomato compositions according to claim 21, wherein the foodstuffs are animal or vegetable fats, solid at room temperature, preferably butter or margarine, mayonnaise, and/or fats liquid at room temperature preferably vegetable oils, preferably olive oil, and/or cheese having soft-, or fresh-grain or hard-grain and grated, spreadable ham, spreadable salami.
 23. Tomato compositions according to claim 22, wherein, in the dry residue, the water insoluble solids range (percentage by weight) from 18% to 25% and the water soluble solids from 82% to 75%.
 24. Tomato compositions according to claims 22-23, wherein the amount of the oil in the composition ranges from 10% to 25% by weight referred to the weight of the starting tomato product; solid fats and soft-grain cheese amount ranges from 30% to 300% by weight, referred to the weight of the starting tomato product; the amount of hard-grain and grated cheeses ranges from 10 to 25%, the mayonnaise amount ranges from 90% to 20% by weight referred to the weight of the starting tomato product.
 25. Tomato foods obtainable from the compositions of claims 21-24.
 26. Use as condiment of foods of the tomato products or tomato compositions according to claims 16-24.
 27. Use according to claim 26, wherein as foods to be sauced, pasta, meat, fish, vegetables are used.
 28. Tomato compositions wherein the tomato products according to claims 16-20 and the compositions according to claims 21-25 are additioned of pectins and/or polysaccharides.
 29. Tomato compositions according to claim 28, wherein the amount of pectins and/or polysaccharides ranges from 10% to 20% by weight.